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[BE/BE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven
(NL).

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(74) Agent: **GROENENDAAL, Antonius, W., M.**; Philips
Intellectual Property & Standards, Prof. Holstlaan 6,
NL-5656 AA Eindhoven (NL).

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(71) Applicant (*for all designated States except US*): **KONIN-
KLJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

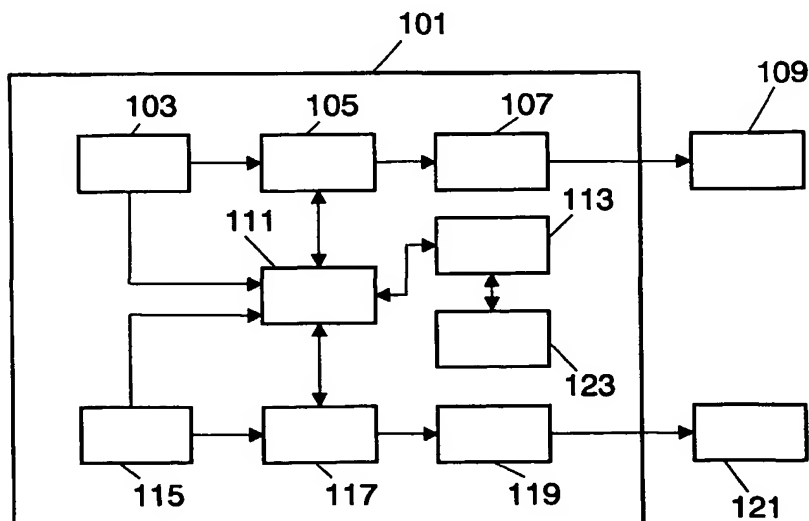
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(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **AERTS, Steven, G., E.**

[Continued on next page]

(54) Title: PORTABLE MEDIA PLAYER WITH ADAPTATIVE PLAYBACK BUFFER CONTROL



(57) Abstract: The invention relates to a portable content presentation device (101) such as a portable audio player. The portable presentation device (101) comprises a content signal source (103) for providing a first content signal. A memory (111) buffers content signal to provide electronic shock protection. The portable presentation device (101) comprises a presentation signal generator (105) which generates a suitable presentation signal. The portable presentation device (101) also comprises a memory controller (113) which dynamically adjusts the buffer memory allocation and creates a second memory allocation of the memory (111) for a second application. A portability processor (123) determines a portability state, e.g. indicating stationary or portable use, and the memory allocation is in response thereto, such that the buffer memory is reallocated to the second application, when the portable presentation device (101) is used in a stationary mode. The second application may be a second presentation application such as a presentation application for images.

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**Declaration under Rule 4.17:**

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 654 949 A (KATO SHIGETOSHI ET AL) 5 August 1997 (1997-08-05) the whole document	1-20
A	EP 0 400 810 A (SONY CORP) 5 December 1990 (1990-12-05)	

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☒ Patent family members are listed in annex.

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European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Benfield, A

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5654949	A	05-08-1997	JP	9045003 A	14-02-1997
			DE	19629929 A1	30-01-1997
<hr/>					
EP 0400810	A	05-12-1990	JP	3003165 A	09-01-1991
			CA	2016558 A1	30-11-1990
			DE	69023393 D1	14-12-1995
			DE	69023393 T2	18-04-1996
			EP	0400810 A2	05-12-1990
			KR	210994 B1	15-07-1999
			US	5148417 A	15-09-1992
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